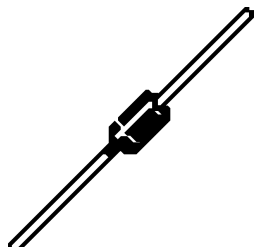


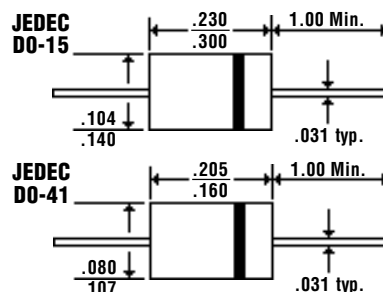
HIGH VOLTAGE MINIATURE PLASTIC RECTIFIERS

GP02 & GP05 Series

Description



Mechanical Dimensions



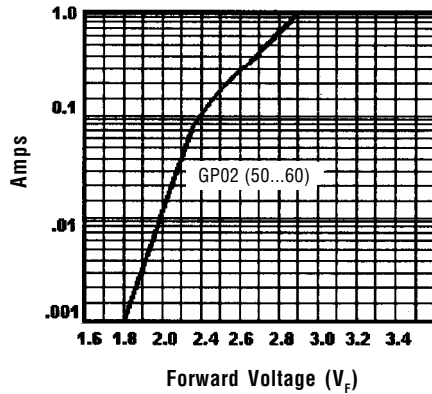
Features

- DESIGNED FOR PHOTO FLASH APPLICATIONS
- LOW COST

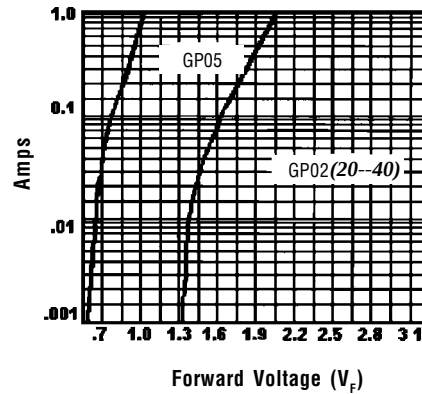
- BEVELED ROUND CHIP, AVALANCHE OPERATION
- MEETS UL SPECIFICATION 94V-0

Electrical Characteristics @ 25°C.		GP02 & GP05 Series			Units
Maximum Ratings		GP02 (20~60)	GP05 (10~20)		
Average Forward Rectified Current... I_o @ $T_A = 55^\circ\text{C}$		< 0.2 >	< 0.2 >	< 0.5 >	Amps
Non-Repetitive Peak Forward Surge Current... I_{FSM} @ Rated Load Conditions, 8.3 mS, 1/2 Sine Wave		< 25 >	< 20 >	< 30 >	Amps
Forward Voltage... V_f @ $I_f = 0.2$ Amps (GP02) @ $I_f = 0.5$ Amps (GP05)		< 3.0 >	< 3.0 >	< 2.1 >	Volts
DC Reverse Current... I_R		 5.0	 5.0	 5.0	μAmps
Typical Reverse Recovery Time... T_{RR}		 500	 500	 500	nS
Typical Junction Capacitance... C_j		< 7.0 >	< 5.0 >	< 9.0 >	pF
Operating Temperature Range... T_J		 -65 to 125	 -65 to 125	 -65 to 125	$^\circ\text{C}$
Storage Temperature Range... T_{STRG}		 -65 to 150	 -65 to 150	 -65 to 150	$^\circ\text{C}$
Maximum Peak Inverse Voltage...	PART NO	PACKAGE	Vrrm		
	GP05--10	DO-41	1000		Volts
	GP05--15	DO-41	1500		Volts
	GP05--16	DO-41	1600		Volts
	GP05--18	DO-41	1800		Volts
	GP05--20	DO-41	2000		Volts
	GP02--20	DO-41	2000		Volts
	GP02--25	DO-41	2500		Volts
	GP02--30	DO-41	3000		Volts
	GP02--35	DO-15	3500		Volts
	GP02--40	DO-15	4000		Volts
	GP02--45	DO-15	4500		Volts
	GP02--50	DO-15	5000		Volts
	GP02--60	DO-15	6000		Volts

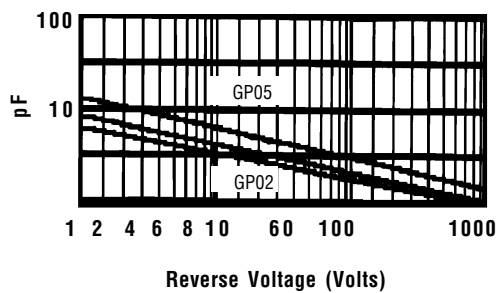
Typical Forward Characteristics



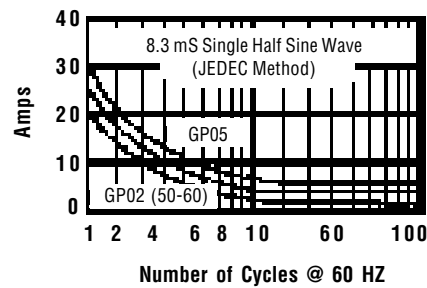
Typical Forward Characteristics



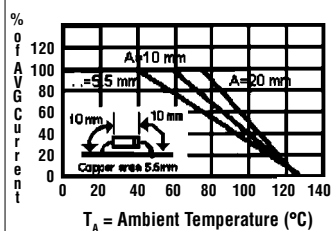
Typical Junction Capacitance



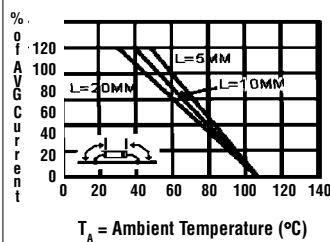
Maximum Surge Current



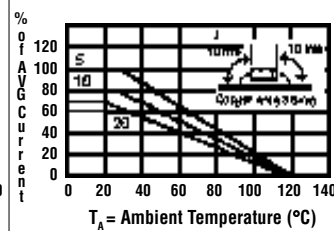
**Maximum Current Rating
Effect of Copper Area
Resistive/Inductive Load**



**Maximum Current Rating
Effect of Lead Lengths
Resistive/Inductive Load**



**Maximum Current Rating
Capacitive Load**



Ratings at
25 Deg. C ambient
temperature
unless otherwise
specified.

Single Phase Half
Wave, 60 HZ
Resistive or
Inductive Load.

For Capacitive
Load, Derate
Current by 20%.